

Abstract

5 A semitrailer train comprising a towing vehicle (2), a semitrailer (3) and a fifthwheel (4) which has a coupling part (5) which is assigned to the towing vehicle (2) and a coupling part (5) which is assigned to the semitrailer (3) which have the purpose of
10 forming a mechanical connection between the towing vehicle (2) and semitrailer (3), a control device (10) for controlling components (9) of the semitrailer (3) being provided in the towing vehicle (2) and the semitrailer (3) having data lines (17) for transmitting
15 the control data and power supply lines (16) for supplying power to the components (9), the coupling part which is assigned to the towing vehicle (2) being a fifthwheel pickup plate (5) and the coupling part which is assigned to the semitrailer (3) being embodied
20 as a kingpin (6) which matches said coupling part. An alternating voltage generator for generating a carrier signal is provided in the towing vehicle (2), a signal modulator modulates the control data onto the carrier signal, and a transformer coil (7) is arranged in the
25 fifthwheel pickup plate (5) of the towing vehicle (2) in order to transmit the carrier signal with the control data modulated onto it to a transformer coil (7, 8) in the region of the kingpin (6) of the semitrailer (3), a demodulator (15) in the semitrailer
30 (3) separating the total signal transmitted by inductive coupling into an energy-carrying power supply voltage and the control data, and the power supply voltage being provided for supplying power to a component (9) in the semitrailer (3).